Data from the Commercial Fishery for Arctic Charr, *Salvelinus alpinus* (L.), in the Central and Keewatin Regions of the Northwest Territories, 1987-88

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by

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Winnipeg, Manitoba R3T 2N6

This is the 41st Data Report

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ABSTRACT

Carder, G.W., and D.B. Stewart. 1989. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the central and Keewatin regions of the Northwest Territories, 1987-88. Can. Data Rep. Fish. Aquat. Sci. 766: vi + 47 p.

Biological samples from commercially caught anadromous Arctic charr were collected during 1987 and 1988 from Baker Foreland, Chesterfield Inlet (Fish Bay), Copperneedle River, Coppermine River, Corbett Inlet, Ekalluk River, Ellice River, Ferguson River, Halovik River, Jayco River, Lauchlan River, Maguse River, Paliryuak River, Pistol Bay, Rankin Inlet, Robinhood Bay, Stony Point and Wilson Bay. Harvest figures, age, length, and weight data from these and other fisheries are presented. Data on daily catch, fisherman participation, and harvest by individual fishermen from Cambridge Bay, Chesterfield Inlet, Rankin Inlet, Whale Cove, and Arviat (formerly Eskimo Point) are also presented.

Key words: catch composition; catch statistics; commercial fishing; exploitation; fishery management; monitoring.

RÉSUMÉ

Carder, G.W., and D.B. Stewart. 1989. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the central and Keewatin regions of the Northwest Territories, 1987-88. Can. Data Rep. Fish. Aquat. Sci. 766: vi + 47 p.

Des échantillons d'ombles chevaliers anadromes ont été prélevés en 1987 et 1988 dans les prises commerciales faites dans les endroits suivants: promontoire Baker, bras Chesterfield (Fish Bay), rivière Copperneedle, rivière Coppermine, bras Corbett, rivière Ekalluk, rivière Ellice, rivière Ferguson, rivière Halovik, rivière Jayco, rivière Lauchlan, rivière Maguse, rivière Paliryuak, baie Pistol, bras Rankin, baie Robinhood, pointe Stony et baie Wilson. Sont également présentées des données sur le nombre, l'âge, la longueur et le poids des poissons capturées dans ces pêcheries et ailleurs. S'ajoutent à ces données des renseignements sur les prises quotidiennes, la participation des pêcheurs et la récolte des pêcheurs individuels dans la baie Cambridge, le bras Chesterfield, le bras Rankin, l'anse Whale et à Arviat (anciennement, point Eskimo).

Mots-clés: composition des prises; statistiques sur les prises; pêche commerciale; exploitation; gestion des pêcheries; surveillance.

INTRODUCTION

The Department of Fisheries and Oceans (DFO) has monitored the commercial fishery at Cambridge Bay, Northwest Territories (NWT) since 1971 (Kristofferson and Carder 1980; Carder 1981, 1983, 1988; Carder and Low 1985) and Rankin Inlet, Northwest Territories since 1972 (Carder 1983, 1988; Carder and Peet 1983; Carder and Low 1985). Information collected from biological samples taken has been used to assess the status of the catchable portion of anadromous Arctic charr stocks. Data obtained from these areas and the Coppermine fishery during 1987 and 1988 are presented in this report. Quotas and harvest figures from other commercial Arctic charr fisheries in the Northwest Territories are also shown. Daily catches and the participation and harvest by individual fishermen have not been well documented for commercial Arctic charr fisheries in the NWT. Exceptions to this are recent economic analyses of the Whale Cove and Arviat fisheries which provide information on the participation and harvest by individual fishermen in those communities (Yonge 1987a, 1987b). Data on the daily catch, participation, and harvest by individual fishermen from Cambridge Bay, Chesterfield Inlet, Rankin Inlet, Whale Cove, and Arviat are presented.

MATERIALS AND METHODS

THE FISHERIES

The early history of the Cambridge Bay commercial fishery is described by Barlishen and Webber (1973) and the Rankin Inlet commercial fishery by Carder and Peet (1983). Recent data and a description of the Cambridge Bay area can be found in Kristofferson and Carder (1980), Carder (1981) Carder (1983, 1988) and Carder and Low (1985). Similar information for the Rankin Inlet area can be found in Carder (1983, 1988), Carder and Peet (1983), Carder and Low (1985), and Yonge (1987a, 1987b), and for the Coppermine fishery in Carder (1988).

Arctic charr are caught primarily by gill nets with mesh sizes varying from 139 mm to 159 mm stretched measure. In 1987 during the upstream migration Jayco River was fished using an experimental fish weir (saputit) (Carder 1981; Kristofferson et al. 1986).

Fishing locations are shown in Fig. 1, 2, and 3. The Coppermine fishery is adjacent to the community of Coppermine (Fig. 1). North Pole River, Bennett Bay, Piksimanik River, Hanway River, Josephine River and Wallace River were not fished commercially during 1987 and 1988. Quotas and harvest data are shown in Table 2.

DAILY CATCH, FISHERMAN PARTICIPATION, AND FISHERMAN HARVEST

Commercial sales records kept by the fish plants in Cambridge Bay, Chesterfield Inlet, Rankin Inlet, and Arviat provided data on the daily catch by individual fishermen for each quota fished during the 1988 open water season. Whale Cove fish were processed by the fish plant in Rankin Inlet. Daily catch and fisherman participation data for the duration of the open water fisheries are shown in Fig. 4 to 9. The number of fishermen fishing in open water commercial fisheries, the number of quotas each fished, and their total catches are shown in Table 3. The number of quotas fished by a fisherman, and of fishermen fishing at each quota are shown in Tables 4 and 5 respectively.

SAMPLING PROGRAM

Sampling methods are described in Kristofferson and Carder (1980) and Carder and Peet (1983). Biological data are presented in Tables 6 to 67. All tables of length data designate the lower boundary of the length interval (e.g. 450 indicates length interval 450-499 mm).

ACKNOWLEDGMENTS

The authors thank the commercial fishermen of the Cambridge Bay, Coppermine, Chesterfield Inlet, Rankin Inlet, Whale Cove and Arviat (formerly Eskimo Point) areas. Also the staffs of the Ikaluktutiak Cooperative Ltd., Cambridge Bay, Iqalukpik Fish Plant, Chesterfield Inlet, Issatik Food Plant, Rankin Inlet, and Kakivak Fisher Foods, Arviat, NWT.

Summer field assistance at Cambridge Bay was provided by D. Dechief (1988), W. Fillatre (1987), W. Gilles (1988), D. Watson (1987), and G. Weber (1987). Summer field assistance at Rankin Inlet was provided by P. Aupilardjuk (1988), L. Coady (1987), H. Ittinuar (1987), D. Milani (1988), and G. Weber (1988).

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Thanks also to G. Low, Central Arctic area biologist for his support and help and to D. McGowan for his help with computer graphics.

A.H. Kristofferson provided scientific advice and reviewed the final draft of this report. Drafting was done by graphic services. Word processing and typing was done by K. DeCaigny.

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Fig. 1. Map of the Northwest Territories showing locations of commercial fishing areas.

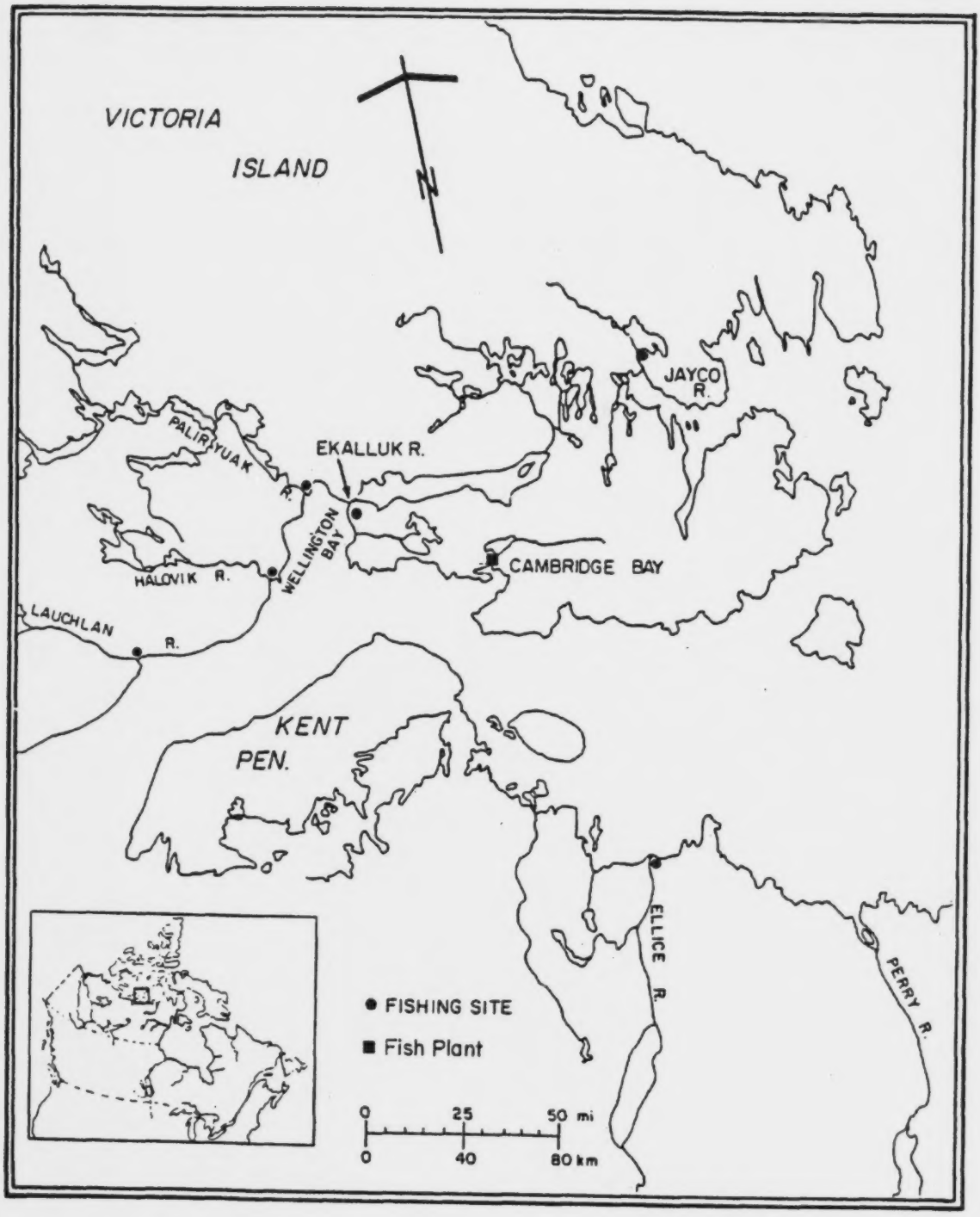

Fig. 2. Map of the Cambridge Bay area showing locations of commercial fishing sites.

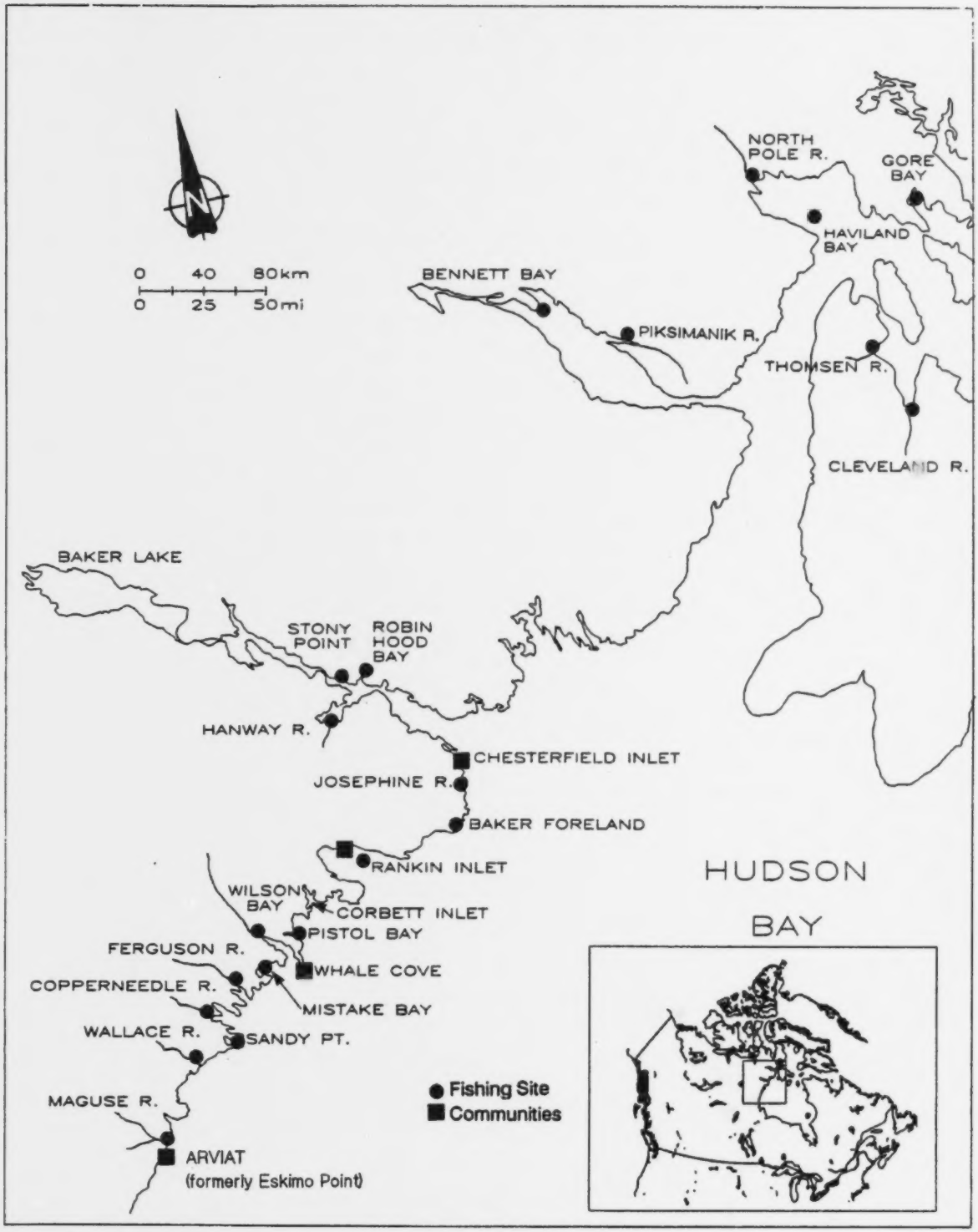

Fig. 3. Map of the Keewatin area showing locations of commercial fishing sites.

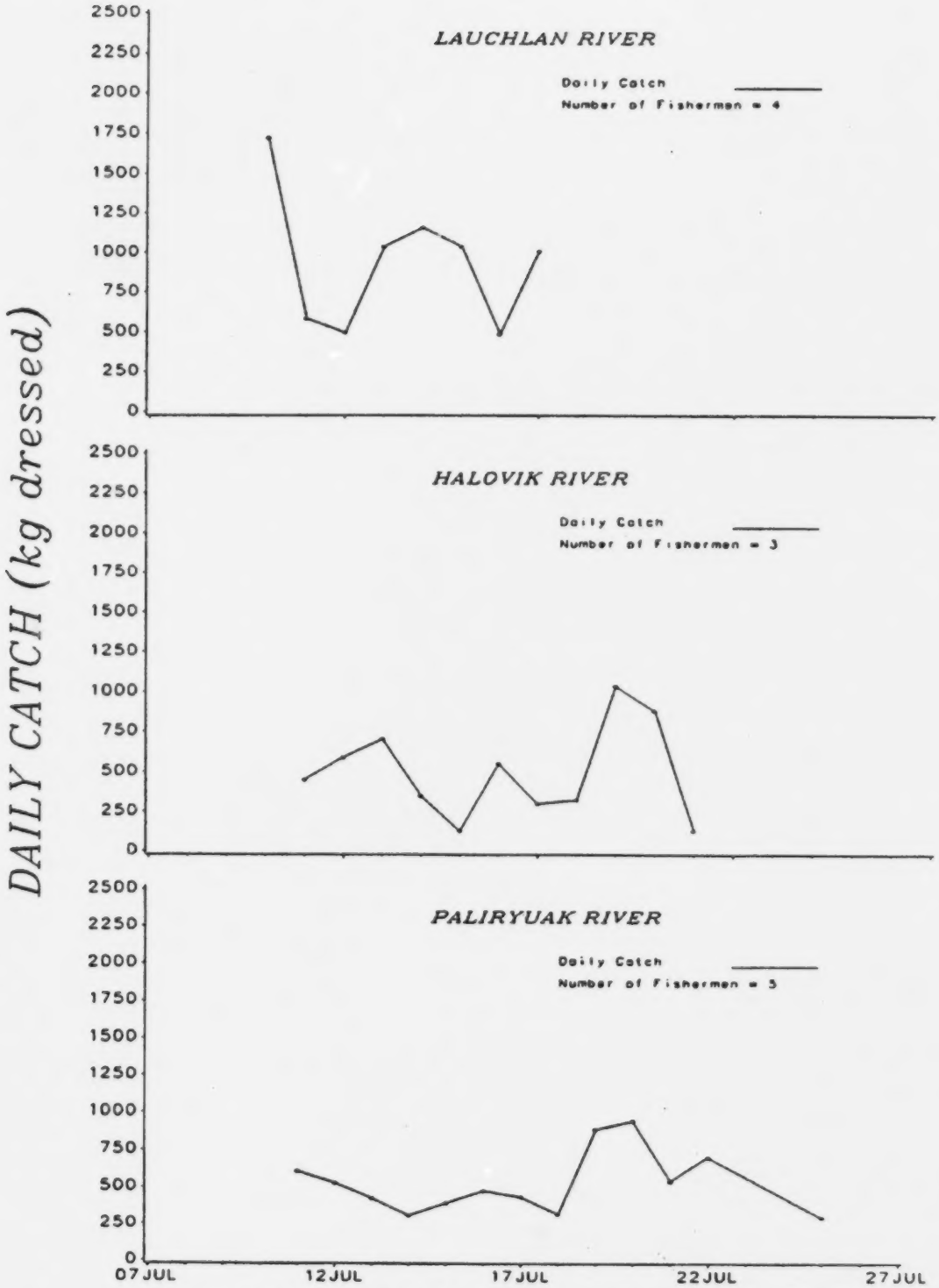

Figure 4. Daily catch and fisherman participation at Lauchlan, Halovik and Paliryuak river commercial fisheries for Arctic charr, Cambridge Bay area, spring 1988.

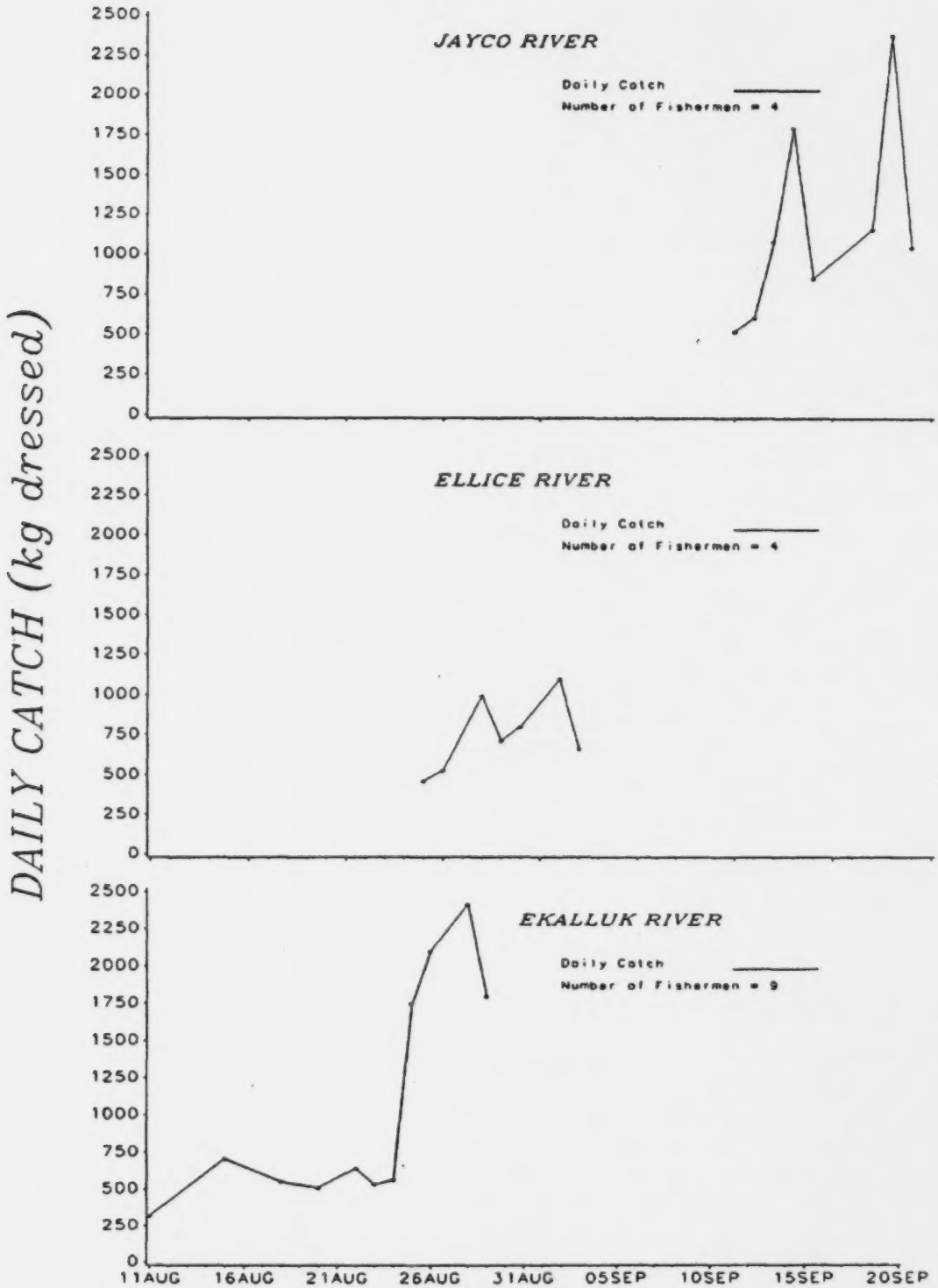

Figure 5. Daily catch and fisherman participation at Jayco, Ellice, and Ekalluk river commercial fisheries for Arctic charr, Cambridge Bay area, fall 1988.

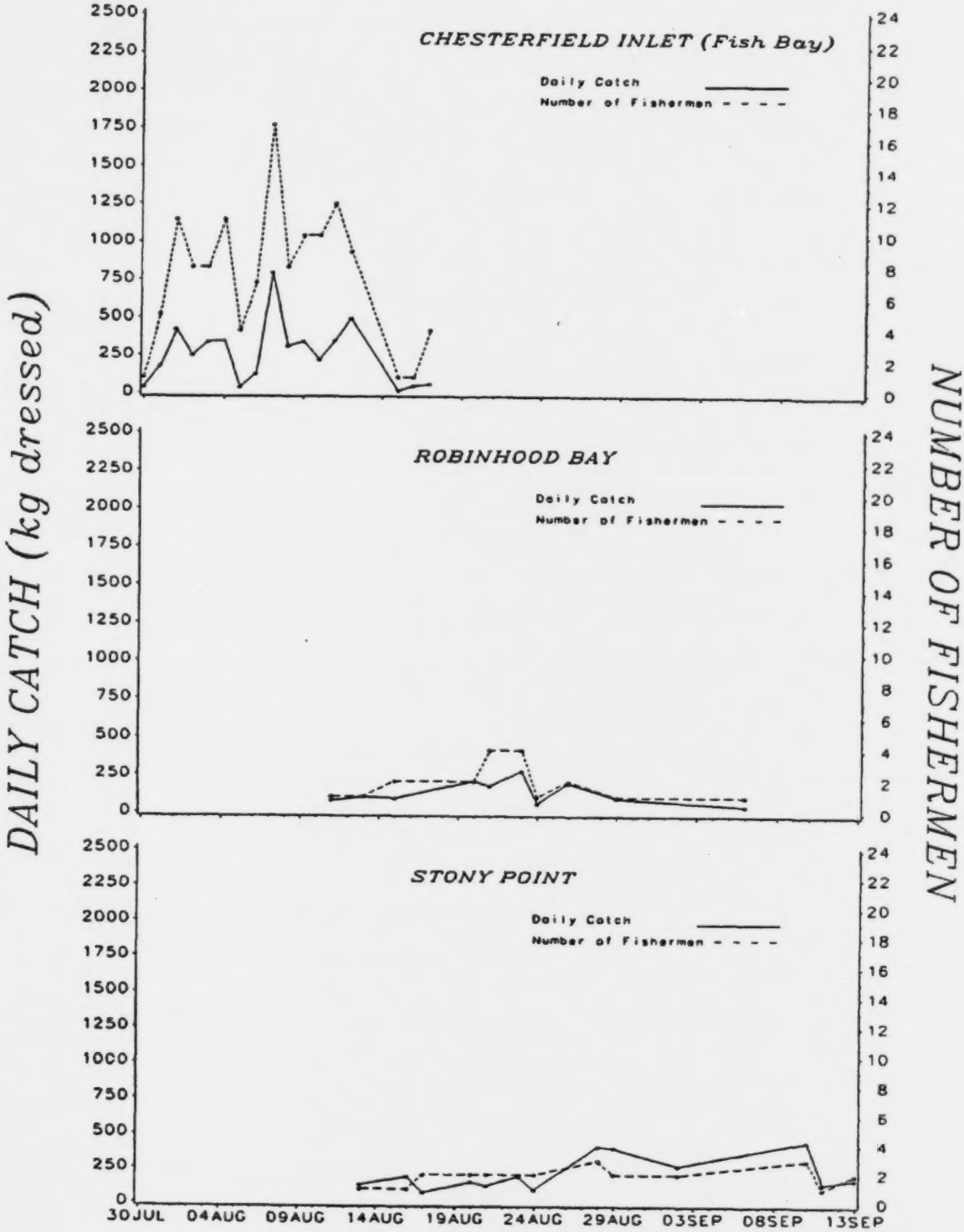

Fig. 6. Daily catch and fisherman participation at Chesterfield Inlet (Fish Bay), Robinhood Bay, and Stony Point commercial fisheries for Arctic charr , Chesterfield Inlet area, summer 1988.

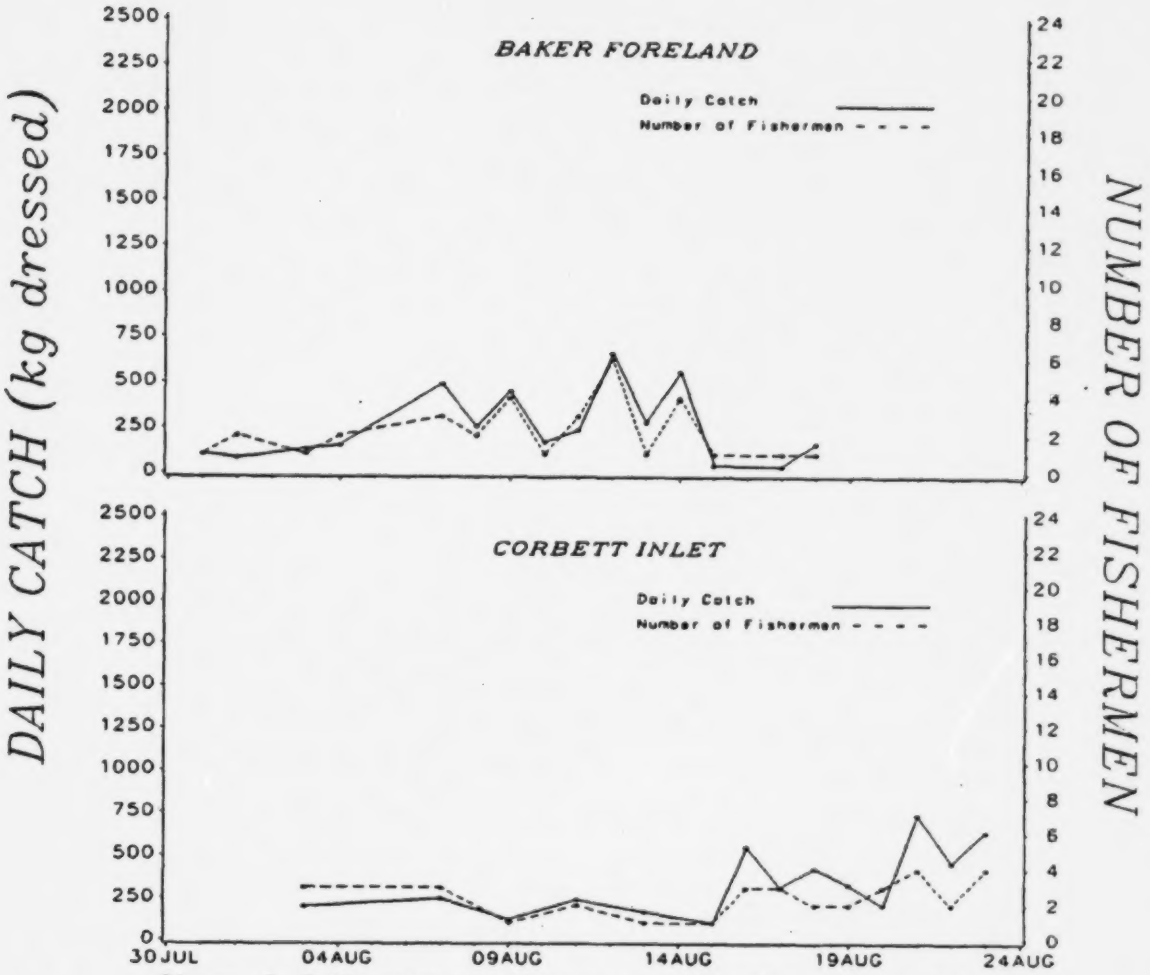

Figure 7. Daily catch and fisherman participation at Baker Foreland and Corbett Inlet commercial fisheries for Arctic charr, Rankin Inlet area, summer 1988.

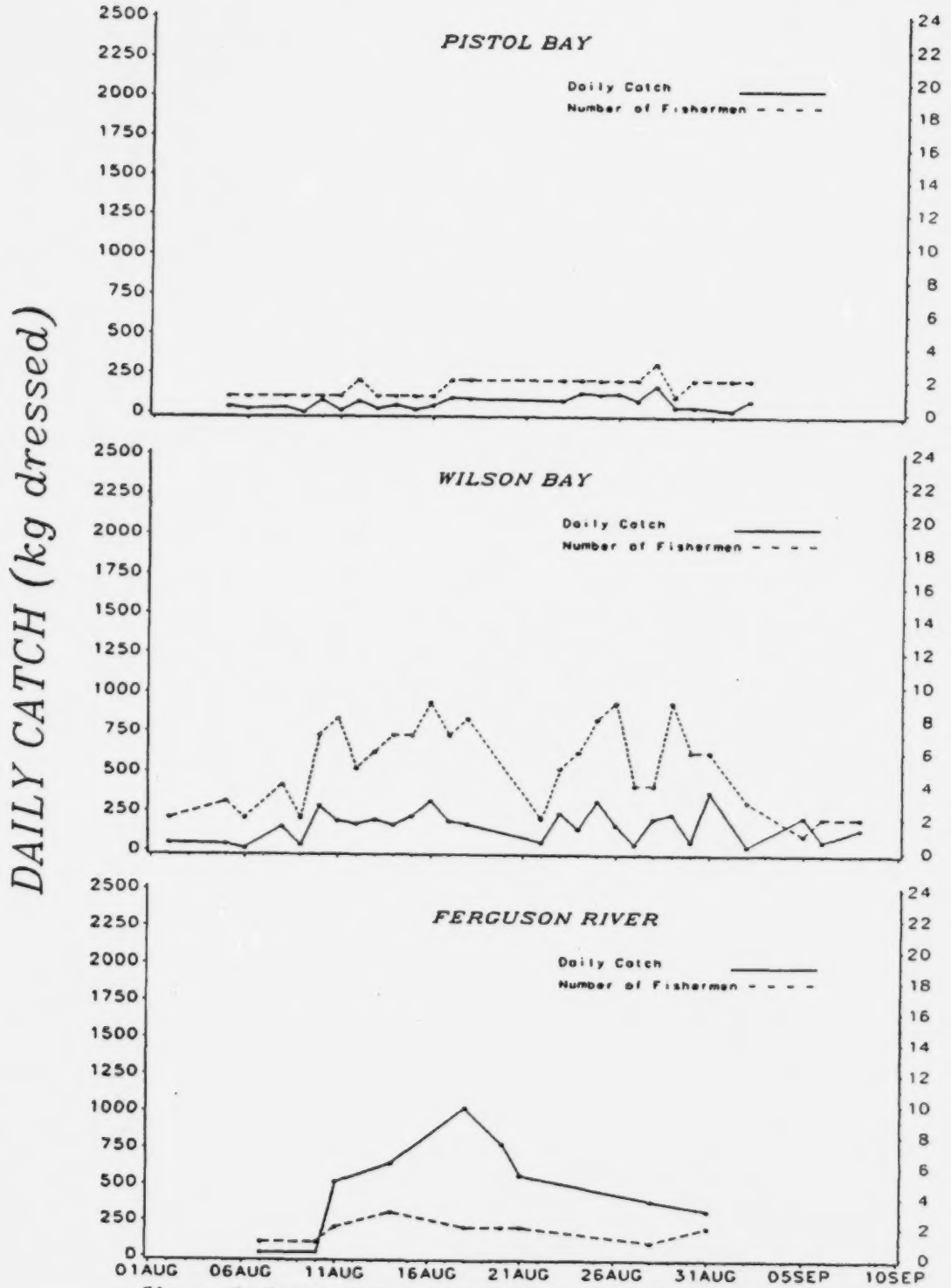

Figure 8. Daily catch and fisherman participation at Pistol Bay, Wilson Bay and Ferguson river commercial fisheries for Arctic charr, Whale Cove area, summer 1988.

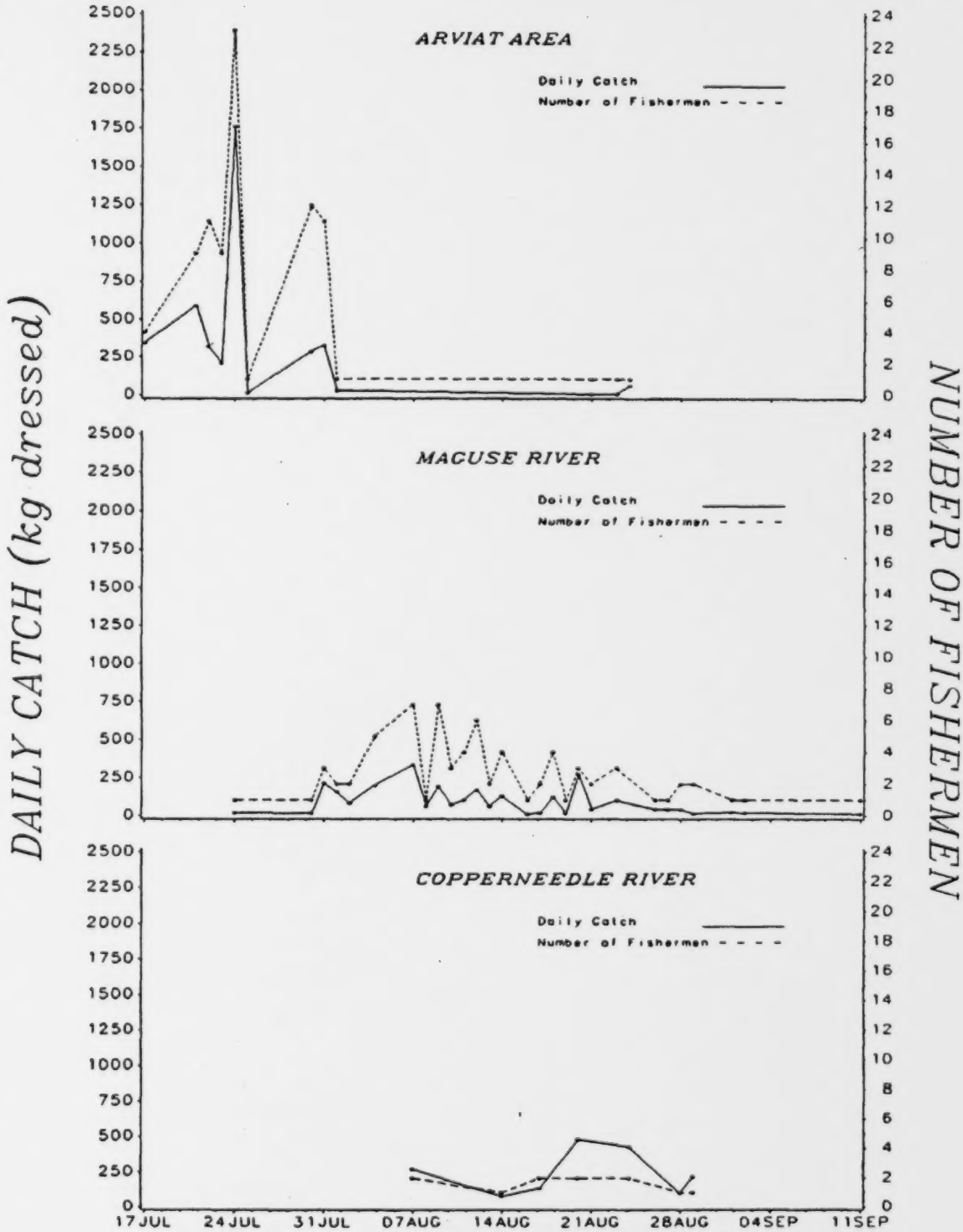

Figure 9. Daily catch and fisherman participation at Arviat area, Maguse River and Copperneedle river commercial fisheries for Arctic charr, Arviat area, summer 1988.

Table 1. Commercial water bodies sampled during 1987 and 1988.

Waterbody	1987 Samples	1988 Samples
Cambridge Bay Area		
Ekalluk R.	upstream only[1]	upstream only
Paliryuak R.	downstream only[2]	downstream only
Halovik R.	downstream only	downstream only
Lauchlan R.	downstream only	downstream only
Ellice R.	upstream only	upstream only
Jayco R.	upstream only	upstream only
Coppermine Area		
Coppermine R.	upstream only	no samples
Keewatin Area		
Stony Point	no samples	upstream only
Robinhood Bay	no samples	upstream only
Chesterfield Inlet (Fish Bay)	upstream only	no samples
Baker Foreland	upstream only	upstream only
Rankin Inlet	upstream only	upstream only
Corbett Inlet	upstream only	upstream only
Pistol Bay	upstream only	upstream only
Wilson Bay	upstream only	upstream only
Ferguson River	upstream only	upstream only
Copperneedle River	no samples	upstream only
Maguse River	upstream only	upstream only

[1] upstream refers to upstream Arctic charr migration

[2] downstream refers to downstream Arctic charr migration

Table 2. Annual commercial quotas and harvest of anadromous Arctic charr by various fisheries in the Northwest Territories during 1987 and 1988.

	Quota (kg)	Harvest (kg)	
	1987 and 1988	1987	1988
Cambridge Bay area[1]			
Ekalluk River	14 500	14 661 (11 729 dr)[2]	14 834 (11 867 dr)
Paliryuak River (Surrey)	9 100	8 668 (6 934 dr)	8 570 (6 856 dr)
Halovik River (30 mile)	6 800	6 875 (5 500 dr)	6 808 (5 446 dr)
Lauchlan River (Byron Bay)	9 100	9 553 (7 642 dr)	9 425 (7 540 dr)
Ellice River	6 000	4 525 (3 620 dr)	6 544 (5 235 dr)
Jayco River	13 600	13 686 (10 949 dr)	11 820 (9 456 dr)
Coppermine Area[3]			
Coppermine River	600	600 (522 dr)	600 (522 dr)
Keewatin Area[3]			
Haviland Bay area	2 300	63 (55 dr)	-
Gore Bay area	3 600	81 (70 dr)	-
Thomsen River area	2 300	2 300 (2 000 dr)	-
Chesterfield Inlet (Fish Bay)	4 600	2 900 (2 522 dr)	5 050 (4 391 dr)
Stony Point	6 800	-	3 257 (2 832 dr)
Robinhood Bay	6 800	-	1 540 (1 338 dr)
Baker Foreland	4 600	1 641 (1 427 dr)	4 414 (3 838 dr)
Rankin Inlet	9 100	closed	closed
Corbett Inlet	4 500	2 145 (1 865 dr)	5 440 (4 732 dr)
Pistol Bay	2 300	2 047 (1 780 dr)	1 707 (1 485 dr)
Wilson Bay	7 000 (summer)	4 991 (4 340 dr)	5 178 (4 503 dr)
	3 000 (winter)	-	3 200 (2 783 dr)

Table 2. Cont'd.

	Quota (kg)	Harvest (kg)	
	1987 and 1988	1987	1988
Mistake Bay	2 300	397 (345 dr)	-
Ferguson River[5]	13 600	5 083 (4 420 dr)	4 955 (4 308 dr)
Copperneedle River	4 500	325 (283 dr)	1 970 (1 715 dr)
Sandy Point	900	900 (783 dr)	900 (783 dr)
Maguse River	4 500	10 347[4] (8 997 dr)	3 022 (2 628 dr)
Arviat area	4 500	10 347[4] (8 997 dr)	4 567 (3 971 dr)
Churchill, Manitoba	500	200 (174 dr)	unavailable

[1] Round weight calculated using a dressed weight to round weight conversion factor of 1.25 (includes estimate of culls).

[2] Dressed weight (viscera and gills removed).

[3] Round weight calculated using a dressed weight to round weight conversion factor of 1.15 (does not include estimate of culls).

[4] Arviat and Maguse River production is combined.

[5] Fishermen from Whale Cove and Arviat fished Ferguson River in 1988, taking 4095 kg dr and 213 kg dr of Arctic charr respectively.

Table 3. Number of quotas fished and harvest of Arctic charr in kg (dressed weight) by fishermen from Cambridge Bay, Chesterfield Inlet, Rankin Inlet, Whale Cove, and Arviat, NWT, who participated in the 1988 open water commercial fishery.

Fisherman Identification #	Cambridge Bay		Chesterfield Inlet			Rankin Inlet		Whale Cove		Arviat	
	Quotas Fished	Catch (kg dr)	Quotas Fished	Catch (kg dr)	(fish)	Quotas Fished	Catch (kg dr)	Quotas Fished	Catch (kg dr)	Quotas Fished	Catch (kg dr)
1	3	4479	1	1853	703	2	1746	1	1872	2	1585
2	2	4123	3	1290	579	1	1046	1	1583	2	1545
3	2	4123	2	923	383	1	908	2	1048	1	588
4	2	3832	1	561	235	2	877	2	1003	3	537
5	2	2929	3	479	208	1	758	3	653	1	401
6	2	2929	2	478	221	1	740	1	637	2	360
7	2	2929	1	422	192	1	615	1	483	2	305
8	2	2564	1	412	191	1	478	1	440	2	300
9	2	2564	2	411	186	2	442	1	318	2	294
10	1	2364	2	345	143	1	324	1	273	2	292
11	1	2364	1	289	148	1	281	1	247	3	250
12	1	2364	2	253	118	1	145	1	215	3	228
13	2	2115	1	240	110	1	101	1	215	1	208
14	1	1401	1	191	90	1	90	1	208	1	195
15	1	1401	2	167	71	1	20	1	183	1	157
16	1	1309	1	164	78			1	135	2	144
17	1	1309	1	131	61			1	132	2	140
18	1	1309	1	121	49			1	117	1	133
19			1	89	33			1	66	1	131
20			1	64	29			1	57	1	121
21			1	63	32			1	55	2	99
22			1	48	18			1	40	1	88
23			1	36	18			1	36	1	88
24			1	35	15			1	24	1	78
25			1	20	10			1	23	1	66
26			1	14	6			1	20	1	62
27			1	13	5					2	59
28			1	11	9					1	52
29										2	51
30										1	50
31										1	50
32										1	47
33										1	47
34										1	42
35										1	41
36										1	41
37										1	40
38										1	39
39										1	38
40										1	37
41										1	36
42										1	33
43										1	30
44										2	27
45										1	26
46										1	22
47										1	20
48										1	20
49										1	13
50										1	13
51										1	12
52										1	11
53										1	9
54										1	9
Total Harvest:		46408[1]		9122[2]	3941		8570		10084		9309
Mean Harvest:		2578		326	141		571		388		172

[1] Catches include culls.

[2] Chesterfield Inlet catches include those from test fisheries at Saqvaqjuac and Kangiqsukjuak.

Table 4. Number of commercial quotas fished by individual fishermen from Cambridge Bay, Chesterfield Inlet, Rankin Inlet, Whale Cove, and Arviat, NWT, who participated in the 1988 open water commercial fishery for Arctic charr.

Number of Quotas Fished	Active Fishermen				
	Cambridge Bay	Chesterfield Inlet	Rankin Inlet	Whale Cove	Arviat
1	8	20	12	24	39
2	9	6	3	2	12
3	1	2			3
Total:	18	28	15	26	54

Table 5. Number of fishermen harvesting Arctic charr for commercial sale from quotas in the Cambridge Bay, Chesterfield Inlet, Rankin Inlet, Whale Cove, and Arviat areas, NWT, during the 1988 open water fishery.

Community	Quota Area	Number of Fishermen
Cambridge Bay	Ekalluk River	9
	Halovik River	3
	Paliryuak River	5
	Lauchlan River	4
	Ellice River	4
	Jayco River	4
Chesterfield Inlet	Chesterfield Inlet (Fish Bay)	22
	Robinhood Bay	5
	Steepbank Bay	1
	Stony Point	4
	Kangiqsukjuak* (63-34N, 90-41W)	3
	Saqvaqjuak* (63-39N, 90-33W)	3
Rankin Inlet	Baker Foreland	8
	Corbett Inlet	10
Whale Cove	Ferguson River	6
	Pistol Bay	3
	Wilson Bay	19
Arviat	Copperneedle River	5
	Arviat Area	42
	Ferguson River	1
	Maguse River	24
	Sandy Point	1

* = test fishery, not on Schedule V.
(located near the community of Chesterfield Inlet, NWT)

Table 6. Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
11	1	1	547	-	1700	-
12	10	7	606	40	2240	583
13	26	18	646	36	2488	463
14	22	15	635	46	2336	526
15	25	18	685	58	2862	616
16	12	8	708	61	3267	786
17	25	18	721	56	3288	862
18	14	10	736	62	3554	894
19	3	2	742	69	3617	983
20	3	2	734	37	3300	458
21	1	1	644	-	2500	-
TOTAL	142					
MEAN			679	66	2860	805
MEAN AGE	15.2					

Table 7. Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	1	1	547	1700	-
550	18	9	578	1839	360
600	44	22	628	2303	239
650	57	29	676	2754	291
700	50	25	722	3260	408
750	18	9	769	3811	429
800	12	6	814	4829	413
TOTAL	200				
MEAN			684	2913	800

Table 8. Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	1	1	473	-	1250	-
9	2	1	487	4	1275	35
10	9	5	511	28	1472	274
11	7	4	530	41	1664	223
12	23	13	562	39	1917	377
13	26	15	583	62	2198	761
14	53	30	621	59	2756	786
15	24	13	624	75	2829	1104
16	17	9	684	40	3471	892
17	12	7	673	35	3392	597
18	1	1	645	-	3150	-
19	2	1	688	18	4125	177
20	1	1	755	-	4350	-
21	1	1	685	-	3350	-
TOTAL	179					
MEAN			608	73	2585	962
MEAN AGE	13.9					

Table 9. Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	14	7	480	1239	213
500	34	16	527	1612	139
550	41	20	574	2038	315
600	53	25	623	2687	328
650	41	20	673	3366	439
700	23	11	715	4046	531
750	4	2	759	4888	437
TOTAL	210				
MEAN			611	2613	955

Table 10. Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
11	4	2	604	66	1763	550
12	25	15	637	33	2276	602
13	25	15	654	39	2386	504
14	24	15	670	43	2498	390
15	32	20	701	53	2922	722
16	23	14	713	58	2963	788
17	14	9	727	54	3171	685
18	11	7	744	49	3414	746
19	3	2	779	67	3633	1258
20	1	1	770	-	2800	-
22	1	1	845	-	4250	-
TOTAL	163					
MEAN			687	61	2731	754
MEAN AGE	14.7					

Table 11. Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	1	0	544	1200	-
550	11	4	581	1600	195
600	52	21	630	2163	407
650	83	33	676	2542	272
700	61	24	723	3072	401
750	30	12	774	3663	510
800	12	5	822	4229	335
TOTAL	250				
MEAN			692	2761	721

Table 12. Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	9	5	611	28	2111	342
13	44	24	633	44	2243	410
14	57	31	638	37	2300	406
15	29	16	657	54	2536	667
16	12	7	662	57	2558	569
17	19	10	661	30	2545	338
18	5	3	625	40	2390	204
19	2	1	672	22	2600	0
20	2	1	718	124	3100	1273
21	1	1	700	-	2900	-
22	1	1	707	-	2600	-
TOTAL	181					
MEAN			644	46	2377	484
MEAN AGE	14.6					

Table 13. Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	3	1	526	1233	104
550	17	8	577	1779	318
600	93	44	625	2187	195
650	65	31	668	2590	230
700	27	13	716	3044	321
750	4	2	765	3325	735
800	1	0	805	4000	-
TOTAL	210				
MEAN			649	2406	475

Table 14. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
10	1	1	580	-	1450	-
11	1	1	570	-	1600	-
12	6	5	632	51	2092	774
13	9	7	700	65	3100	690
14	13	10	694	42	2912	646
15	22	18	709	44	3016	625
16	28	23	750	43	3388	662
17	18	15	767	44	3550	494
18	16	13	760	36	3569	640
19	5	4	787	37	3930	494
20	4	3	744	58	3263	629
21	1	1	800	-	4500	-
TOTAL	124					
MEAN			730	60	3232	748
MEAN AGE	15.8					

Table 15. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	6	3	570	1417	121
600	7	4	632	1950	216
650	22	11	675	2648	372
700	74	37	724	3142	363
750	69	35	770	3601	449
800	20	10	818	4168	437
850	2	1	857	4500	495
TOTAL	200				
MEAN			737	3269	708

Table 16. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
11	2	2	566	37	1550	141
12	5	4	626	43	2220	506
13	18	14	646	46	2389	520
14	22	17	684	32	2968	418
15	20	16	700	48	3020	621
16	16	13	697	42	2953	536
17	15	12	712	59	3133	733
18	15	12	716	71	3143	804
19	7	6	753	38	3486	430
20	6	5	789	45	3833	673
22	1	1	685	-	2750	-
TOTAL	127					
MEAN			695	61	2948	696
MEAN AGE	15.6					

Table 17. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	2	1	541	1450	0
550	10	6	583	1660	201
600	18	11	632	2217	238
650	52	32	679	2794	264
700	50	31	722	3236	301
750	25	15	770	3686	351
800	5	3	812	4120	409
850	1	1	854	5150	-
TOTAL	163				
MEAN			698	2972	677

Table 18. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
10	1	1	632	-	2100	-
11	3	2	652	6	2217	104
12	4	3	652	33	2200	376
13	5	4	672	28	2420	307
14	12	10	744	29	3313	339
15	14	11	725	41	3011	579
16	35	28	759	34	3471	662
17	25	20	755	46	3226	564
18	15	12	766	42	3497	658
19	6	5	763	55	3575	941
20	2	2	786	28	4300	919
21	1	1	805	-	3950	-
TOTAL	123					
MEAN			744	49	3253	698
MEAN AGE	16.0					

Table 19. Length composition of Arctic charr taken by commercial fishery at Lauchlan River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	1	1	544	1200	-
600	7	4	636	2064	138
650	25	13	678	2478	264
700	71	36	726	3037	439
750	66	33	769	3508	471
800	28	14	815	4050	615
850	2	1	865	4775	389
TOTAL	200				
MEAN			744	3238	706

Table 20. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	2	1	599	16	1825	389
13	20	13	649	38	2453	464
14	20	13	664	47	2505	553
15	22	14	692	47	2936	673
16	31	19	699	46	2937	617
17	23	14	713	57	3052	629
18	23	14	728	44	3102	583
19	8	5	750	26	3156	503
20	8	5	727	62	3250	776
21	2	1	824	83	4025	601
TOTAL	159					
MEAN			698	57	2889	659
MEAN AGE	16.0					

Table 21. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	2	1	526	1150	71
550	3	1	591	1717	208
600	25	12	630	2174	183
650	67	32	676	2646	340
700	66	31	724	3131	353
750	34	16	767	3565	464
800	11	5	814	4032	530
850	2	1	881	4225	318
TOTAL	210				
MEAN			707	2951	656

Table 22. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	3	2	599	21	2083	293
9	31	18	598	36	2124	390
10	44	26	633	39	2561	456
11	59	35	645	44	2821	714
12	20	12	663	51	3005	785
13	7	4	665	62	3114	767
14	1	1	675	-	2800	-
15	4	2	725	25	3450	520
TOTAL	169					
MEAN			637	49	2661	679
MEAN AGE	10.6					

Table 23. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	2	1	544	1700	141
550	46	23	581	2028	230
600	66	33	627	2498	225
650	61	31	674	3006	402
700	19	10	716	3726	626
750	4	2	774	4388	686
TOTAL	198				
MEAN			641	2693	662

Table 24. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	3	1	541	44	2017	569
9	26	13	577	31	2238	353
10	67	33	610	33	2641	452
11	56	28	628	47	2896	626
12	41	20	659	50	3341	751
13	6	3	670	38	3542	532
14	1	0	585	-	2750	-
15	1	0	725	-	4000	-
17	1	0	705	-	3650	-
TOTAL	202					
MEAN			622	50	2832	678
MEAN AGE	10.7					

Table 25. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	11	5	523	1727	125
550	65	31	581	2302	250
600	72	34	624	2815	246
650	46	22	672	3442	373
700	14	7	718	4243	395
750	2	1	756	4375	247
TOTAL	210				
MEAN			623	2847	686

Table 26. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	1	1	540	-	1400	-
13	3	3	634	40	2050	87
14	6	5	655	27	2258	80
15	24	21	675	51	2667	588
16	29	25	681	45	2716	555
17	27	23	700	40	2863	513
18	15	13	710	57	2927	556
19	5	4	711	66	3090	892
20	2	2	710	28	2600	707
21	2	2	663	74	2350	919
23	1	1	735	-	2250	-
TOTAL	115					
MEAN			686	51	2719	586
MEAN AGE	16.4					

Table 27. Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	1	1	540	1400	-
550	5	3	574	1640	258
600	42	21	628	2126	264
650	62	31	674	2639	379
700	68	34	719	3033	340
750	18	9	763	3592	335
800	4	2	828	4088	951
TOTAL	200				
MEAN			688	2749	613

Table 28. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	3	2	578	15	2133	236
13	12	8	582	30	2358	436
14	21	14	602	35	2481	487
15	15	10	636	48	2947	700
16	24	17	656	47	3175	758
17	20	14	663	60	3368	979
18	23	16	651	54	3154	743
19	9	6	683	45	3539	870
20	10	7	701	51	3565	703
21	5	3	715	72	3960	1237
22	2	1	685	29	3500	566
24	1	1	588	-	2100	-
TOTAL	145					
MEAN			645	59	3059	843
MEAN AGE	16.5					

Table 29. Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	6	3	537	1842	312
550	33	16	574	2123	246
600	60	29	626	2766	311
650	64	30	673	3350	371
700	34	16	718	4063	529
750	11	5	761	4541	548
800	2	1	821	5475	530
TOTAL	210				
MEAN			653	3145	837

Table 30. Age composition of Arctic charr taken by the commercial fishery at Coppermine River, 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	1	2	560	-	1800	-	1.02	1	2	570	-	2250	-	1.21	2	2	565	7	2025	318	1.12	50
8	2	5	545	7	1825	35	1.13	6	12	578	34	2400	416	1.23	8	9	570	33	2256	441	1.21	75
9	12	27	632	57	2888	743	1.13	21	42	599	52	2571	599	1.19	33	35	611	55	2686	661	1.17	64
10	12	27	637	48	3233	1064	1.22	8	16	626	41	2738	667	1.11	20	21	633	44	3035	939	1.17	40
11	10	23	671	85	4025	1606	1.27	8	16	631	35	3438	996	1.34	18	19	653	69	3764	1365	1.30	44
12	7	16	674	56	3900	1106	1.25	4	8	648	17	3388	202	1.25	11	12	665	46	3714	901	1.25	36
13	-	-	-	-	-	-	-	1	2	670	-	4050	-	1.35	1	1	670	-	4050	-	1.35	-
14	-	-	-	-	-	-	-	1	2	810	-	4700	-	0.88	1	1	810	-	4700	-	0.88	-
TOTAL	44							50							94							
MEAN			643	66	3328	1234	1.20			615	54	2847	786	1.21			628	61	3072	1043	1.21	53
MEAN AGE		10.1								9.7							9.9					

Table 31. Length of composition of Arctic charr taken by the commercial fishery at Coppermine River, 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
350	-	-	-	-	-	-	-	-	-	-	-	-	1	1	380	600	-	1.09	-
450	-	-	-	-	-	-	2	3	490	1450	71	1.23	5	3	476	1260	222	1.16	-
500	2	4	535	1900	141	1.24	3	5	527	1833	29	1.26	10	5	526	1770	235	1.21	60
550	10	18	571	2215	282	1.19	18	30	576	2369	202	1.24	43	23	575	2326	367	1.22	64
600	17	30	618	2756	330	1.17	17	28	624	2826	424	1.16	50	27	618	2731	370	1.15	50
650	13	23	660	3292	433	1.14	17	28	665	3559	687	1.21	45	24	664	3348	538	1.14	57
700	11	19	720	4586	729	1.23	1	2	700	3350	-	0.98	20	11	720	4263	738	1.14	8
750	4	7	760	5763	626	1.31	2	3	770	4850	495	1.07	8	4	760	5119	918	1.17	33
800	-	-	-	-	-	-	1	2	810	4700	-	0.88	2	1	810	4550	212	0.86	-
TOTAL	57						61						184						
MEAN			646	3318	1153	1.19			621	2907	842	1.20			628	2973	990	1.17	52

Table 32. Age composition of Arctic charr taken by the commercial fishery at Stony Point, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	3	3	459	35	1083	284
8	8	7	491	31	1300	258
9	20	19	519	37	1615	429
10	30	28	568	56	2190	751
11	20	19	588	48	2320	696
12	19	18	617	46	2695	659
13	2	2	644	110	3125	1662
14	4	4	655	33	3188	574
16	1	1	716	-	3850	-
TOTAL	107					
MEAN			568	67	2169	821
MEAN AGE	10.4					

Table 33. Length composition of Arctic charr taken by the commercial fishery at Stony Point, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	4	3	441	938	118
450	15	13	482	1240	165
500	31	26	520	1544	217
550	28	23	572	2132	346
600	28	23	622	2761	269
650	11	9	675	3595	320
700	3	3	716	4083	225
TOTAL	120				
MEAN			568	2158	833

Table 34. Age composition of Arctic charr taken by the commercial fishery at Robinhood Bay, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	2	2	484	42	1425	389
8	7	8	512	38	1621	462
9	14	15	563	35	2118	389
10	32	34	568	37	2198	490
11	25	27	620	44	2904	819
12	10	11	627	45	2845	697
13	2	2	655	15	3025	530
14	1	1	720	-	4500	-
TOTAL	93					
MEAN			585	56	2428	763
MEAN AGE	10.2					

Table 35. Length composition of Arctic charr taken by the commercial fishery at Robinhood Bay, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	5	4	475	1220	130
500	17	15	529	1724	131
550	51	45	570	2207	237
600	25	22	623	2714	427
650	13	11	669	3546	603
700	3	3	723	4483	525
TOTAL	114				
MEAN			587	2415	739

Table 36. Age composition of Arctic charr taken by the commercial fishery at Chesterfield Inlet (Fish Bay), 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
6	1	1	445	-	1300	-
8	3	3	547	16	1683	225
9	14	16	574	30	2039	349
10	37	43	594	27	2153	324
11	21	24	606	37	2293	522
12	6	7	610	44	2308	564
13	4	5	605	58	2063	304
TOTAL	86					
MEAN			592	38	2149	419
MEAN AGE	10.2					

Table 37. Length composition of Arctic charr taken by the commercial fishery at Chesterfield Inlet (Fish Bay), 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	1	445	1300	-
500	10	8	539	1555	192
550	59	50	573	1920	174
600	39	33	615	2365	226
650	8	7	669	2938	367
700	1	1	741	4100	-
TOTAL	118				
MEAN			591	2119	441

Table 38. Age composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	10	6	544	36	1800	354
9	65	42	576	32	2116	339
10	55	35	594	30	2246	351
11	21	14	612	51	2407	658
12	3	2	626	25	2633	569
13	1	1	685	-	3100	-
TOTAL	155					
MEAN			587	39	2198	433
MEAN AGE	9.6					

Table 39. Length composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	2	1	481	1175	35
500	26	13	534	1698	175
550	100	52	576	2058	191
600	51	26	619	2517	279
650	13	7	663	2915	257
700	1	1	744	4050	-
TOTAL	193				
MEAN			587	2190	426

Table 40. Age composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	4	15	535	71	1763	673
9	9	35	566	23	2022	383
10	8	31	584	25	2313	320
11	5	19	582	35	2250	400
TOTAL	26					
MEAN			570	38	2115	441
MEAN AGE	9.5					

Table 41. Length composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	3	446	1000	-
500	4	12	534	1675	189
550	23	70	575	2113	249
600	4	12	630	2950	208
650	1	3	686	3300	-
TOTAL	33				
MEAN			576	2164	492

Table 42. Age composition of Arctic charr taken by test gill nets (139mm) at Rankin Inlet, 1987.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
8	3	513	40	1833	558	1.32	67	3	503	52	1650	563	1.25	33	6	508	42	1742	511	1.29	50
9	19	564	32	2305	464	1.27	84	10	559	22	2290	297	1.31	70	30	564	31	2332	437	1.29	79
10	8	590	36	2494	381	1.21	88	4	575	33	2413	375	1.26	100	12	585	34	2467	364	1.23	92
11	1	621	-	3300	-	1.38	100	3	578	27	2400	0	1.25	100	4	589	31	2625	450	1.28	100
14	-	-	-	-	-	-	-	1	575	-	2100	-	1.10	100	1	575	-	2100	-	1.10	100
TOTAL	31							21							53						
MEAN		567	39	2340	497	1.27			558	36	2229	396	1.28			565	39	2313	472	1.27	
MEAN AGE		9.2							9.6							9.4					

Table 43. Length composition of Arctic charr taken by test gill nets (139mm) at Rankin Inlet, 1987.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
400	-	-	-	-	-	-	2	443	950	71	1.09	0	2	443	950	71	1.09	0
450	2	463	1125	106	1.13	0	-	-	-	-	-	-	2	463	1125	106	1.13	0
500	11	532	2000	201	1.33	82	8	534	2075	163	1.37	63	19	533	2032	185	1.34	74
550	18	572	2328	216	1.24	83	12	576	2354	250	1.23	92	30	574	2338	227	1.24	87
600	10	617	2910	354	1.23	90	4	620	2900	178	1.22	100	15	619	2930	309	1.23	87
650	2	666	3900	71	1.32	100	1	666	3550	-	1.20	100	3	666	3783	208	1.28	100
TOTAL	43						27						71					
MEAN		572	2397	589	1.26			563	2293	557	1.26			569	2369	580	1.26	

Table 44. Age composition of Arctic charr taken by test gill nets (139mm) at Rankin Inlet, 1988.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
7	-	-	-	-	-	-	-	1	535	-	1910	-	1.25	0	1	535	-	1910	-	1.25	0
8	3	515	52	1773	490	1.27	33	4	549	47	2073	492	1.23	50	7	535	49	1944	476	1.25	43
9	13	575	40	2455	503	1.28	69	11	554	20	2153	241	1.26	45	25	564	33	2309	418	1.27	58
10	15	578	26	2424	315	1.25	100	20	577	23	2412	275	1.25	85	35	578	24	2417	288	1.25	91
11	3	610	36	2840	536	1.25	100	9	585	7	2361	99	1.18	89	12	591	20	2481	326	1.20	92
12	1	614	-	3210	-	1.39	100	2	602	66	2670	764	1.21	100	3	606	47	2850	624	1.27	100
TOTAL	35							47							83						
MEAN		575	39	2438	482	1.27			571	28	2313	315	1.24			573	33	2363	395	1.25	
MEAN AGE		9.6							9.8							9.7					

Table 45. Length composition of Arctic charr taken by test gill nets (139mm) at Rankin Inlet, 1988.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
400	1	436	1080	-	1.30	0	-	-	-	-	-	-	1	436	1080	-	1.30	0
450	1	458	1250	-	1.30	0	1	480	1340	-	1.21	0	2	469	1295	64	1.26	0
500	14	530	1899	143	1.28	29	12	539	1998	93	1.28	33	27	534	1952	132	1.28	30
550	20	575	2395	254	1.26	100	36	577	2361	178	1.23	81	56	577	2373	206	1.24	88
600	11	623	3040	329	1.26	100	6	614	2822	266	1.22	100	17	620	2963	318	1.24	100
650	1	690	3800	-	1.16	100	1	663	3710	-	1.27	100	2	677	3755	64	1.21	100
TOTAL	48						56						105					
MEAN		570	2376	576	1.26			573	2339	363	1.24			571	2354	469	1.25	

Table 46. Age composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
6	2	3	455	14	975	177
7	2	3	544	20	1825	177
8	27	42	569	32	2031	321
9	26	40	584	42	2385	558
10	7	11	605	36	2593	589
11	1	2	606	-	2600	-
TOTAL	65					
MEAN			575	43	2203	542
MEAN AGE	8.6					

Table 47. Length composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	2	3	439	875	35
450	2	3	475	1125	35
500	16	21	528	1725	210
550	32	42	576	2127	279
600	22	29	613	2623	313
650	3	4	671	3717	126
TOTAL	77				
MEAN			574	2188	580

Table 48. Age composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	3	2	484	75	1300	577
8	34	18	557	29	1954	302
9	63	34	585	31	2283	407
10	60	32	611	40	2512	548
11	18	10	611	32	2517	443
12	6	3	621	54	2700	774
13	2	1	624	52	2875	813
15	1	1	763	-	4750	-
TOTAL	187					
MEAN			592	45	2336	552
MEAN AGE	9.5					

Table 49. Length composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	0	423	850	-
450	4	2	480	1325	260
500	24	12	536	1771	177
550	99	48	576	2118	196
600	58	28	620	2634	271
650	18	9	668	3383	456
700	1	0	737	4400	-
750	1	0	763	4750	-
TOTAL	206				
MEAN			591	2336	568

Table 50. Age composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
6	1	1	410	-	750	-
7	1	1	517	-	1500	-
8	11	16	561	29	1964	218
9	33	47	581	36	2265	453
10	16	23	595	28	2344	425
11	6	9	601	21	2308	227
12	1	1	634	-	2600	-
13	1	1	554	-	1850	-
TOTAL	70					
MEAN			580	40	2206	451
MEAN AGE	9.3					

Table 51. Length composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	1	410	750	-
500	14	16	528	1704	166
550	48	54	575	2132	216
600	24	27	619	2575	317
650	2	2	660	3325	318
TOTAL	89				
MEAN			580	2196	435

Table 52. Age composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	1	2	512	-	1400	-
8	7	12	556	38	1964	384
9	15	25	586	27	2263	308
10	28	47	596	40	2432	454
11	7	12	658	26	3186	673
12	1	2	635	-	2750	-
13	1	2	722	-	4000	-
TOTAL	60					
MEAN			597	47	2438	583
MEAN AGE	9.7					

Table 53. Length composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	9	12	525	1711	173
550	33	43	575	2161	271
600	24	32	616	2558	287
650	9	12	671	3217	559
700	1	1	722	4000	-
TOTAL	76				
MEAN			595	2382	545

Table 54. Age composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	3	4	471	47	1083	416
8	8	10	568	35	2006	290
9	34	42	579	39	2151	355
10	26	32	614	42	2508	567
11	7	9	623	26	2686	407
12	2	2	638	53	2375	460
13	1	1	675	-	3050	-
TOTAL	81					
MEAN			592	50	2275	535
MEAN AGE	9.4					

Table 55. Length composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	1	430	750	-
450	2	2	472	1025	106
500	13	13	527	1704	320
550	36	36	577	2085	162
600	38	38	617	2466	293
650	10	10	664	3125	370
700	1	1	725	3550	-
TOTAL	101				
MEAN			592	2262	527

Table 56. Age composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	5	5	553	45	1970	621
9	21	23	583	32	2186	349
10	38	42	603	38	2459	525
11	23	25	631	56	2863	798
12	3	3	686	43	3500	747
13	1	1	630	-	2200	-
TOTAL	91					
MEAN			606	49	2503	658
MEAN AGE	10.0					

Table 57. Length composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	1	1	485	1150	-
500	8	7	529	1688	179
550	46	42	574	2109	168
600	35	32	623	2611	335
650	15	14	668	3400	456
700	3	3	723	3967	289
750	1	1	755	4450	-
TOTAL	109				
MEAN			604	2481	648

Table 58. Age composition of Arctic charr taken by the commercial fishery at Ferguson River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
9	8	42	600	32	2256	390
10	9	47	598	38	2328	466
11	2	11	643	39	2600	636
TOTAL	19					
MEAN			604	36	2326	434
MEAN AGE	9.7					

Table 59. Length composition of Arctic charr taken by the commercial fishery at Ferguson River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	1	4	545	1800	-
550	9	38	576	2022	120
600	10	42	609	2395	219
650	3	13	669	3083	301
700	1	4	710	4000	-
TOTAL	24				
MEAN			606	2383	525

Table 60. Age composition of Arctic charr taken by the commercial fishery at Ferguson River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	1	1	390	-	650	-
8	12	15	551	26	1908	226
9	22	27	588	45	2325	531
10	34	41	604	32	2443	374
11	11	13	668	33	3327	453
12	1	1	658	-	3250	-
15	1	1	825	-	5100	-
TOTAL	82					
MEAN			601	59	2472	670
MEAN AGE	9.6					

Table 61. Length composition of Arctic charr taken by the commercial fishery at Ferguson River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
350	1	1	390	650	-
450	1	1	485	1050	-
500	9	9	533	1828	200
550	40	38	578	2160	195
600	31	30	618	2605	242
650	19	18	669	3300	332
700	2	2	712	3825	177
800	1	1	825	5100	-
TOTAL	104				
MEAN			605	2507	643

Table 62. Age composition of Arctic charr taken by the commercial fishery at Copperneedle River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	3	6	523	40	1550	300
8	11	23	571	31	2027	290
9	17	35	608	49	2238	340
10	10	21	620	20	2570	368
11	4	8	692	61	3300	866
12	3	6	685	57	3133	548
TOTAL	48					
MEAN			609	58	2360	586
MEAN AGE	9.2					

Table 63. Length composition of Arctic charr taken by the commercial fishery at Copperneedle River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	2	4	489	1300	71
500	5	9	530	1690	238
550	18	33	575	2058	145
600	18	33	620	2464	148
650	8	15	673	2825	646
700	3	6	735	3683	321
TOTAL	54				
MEAN			606	2335	572

Table 64. Age composition of Arctc charr taken by the commercial fishery at Maguse River, 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	9	9	545	42	1839	412
8	34	34	587	23	2204	254
9	33	33	606	26	2347	311
10	22	22	616	33	2480	330
11	2	2	630	13	2550	212
12	1	1	726	-	3350	-
TOTAL	101					
MEAN			598	37	2297	363
MEAN AGE	8.8					

Table 65. Length composition of Arctic charr taken by the commercial fishery at Maguse River, 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	1	1	465	950	-
500	6	5	526	1675	202
550	53	42	579	2083	165
600	57	46	621	2485	208
650	6	5	663	2900	182
700	2	2	718	3350	0
TOTAL	125				
MEAN			601	2297	372

Table 66. Age composition of Arctic charr taken by the commercial fishery at Maguse River, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
5	3	2	447	43	1283	503
6	6	3	454	64	992	448
7	12	7	516	37	2083	2047
8	46	25	583	31	2033	298
9	43	24	604	26	2610	3039
10	39	22	627	38	2362	456
11	21	12	624	47	2469	696
12	9	5	637	35	2500	489
13	2	1	695	1	3025	389
TOTAL	181					
MEAN			595	57	2282	1637
MEAN AGE	9.1					

Table 67. Length composition of Arctic charr taken by the commercial fishery at Maguse River, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
350	3	1	377	567	76
400	7	3	422	886	388
450	9	4	477	1933	2465
500	19	8	530	1600	157
550	72	30	576	1944	166
600	97	41	620	2493	2018
650	26	11	667	2825	342
700	4	2	718	3725	676
TOTAL	237				
MEAN			592	2219	1466

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